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**Title:** DIRECT RESOLUTION OF BETA-HYDROXYCARBOXYLIC ACID  
DERIVATIVE

**Assignee:** DAICEL CHEM IND LTD

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**US Class:**

**Int'l Class:** C07C 69/675 A; C07B 57/00 -; C07C 67/00 B; C07C 233/45 B; C07C 327/22 B; C07C 327/26 B

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**Abstract:**

**PURPOSE:** To readily and rapidly determine the optical purity of the subject compound useful as a raw material of an intermediate of medicines and optically active functional materials by carrying out direct optical resolution of an enantiomer of the subject compound using a separating agent composed of a polysaccharide or a derivative thereof as the active component.

**CONSTITUTION:** Using a separating agent composed of a polysaccharide (preferably homoglucane having high regularity and constant type of bond, especially cellulose, amylose, &beta;-1,4-chitosan, etc., capable of ready preparation of high-purity polysaccharide) or a derivative thereof in which H on the hydroxyl groups is partially or wholly, preferably in an amount of >=85%, substituted with another atomic group as the active component, an enantiomer of a compound of the formula (R1 is alkyl or nonsubstituted or substituted aromatic group; X is acyloxy, aryloxy, alkylthio, arylthio or non-substituted, mono- or disubstituted amino) is directly optically separated by the liquid chromatography, etc.

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**TACHIBANA KOZO**  
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(54)**DIRECT RESOLUTION OF**  
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polysaccharide) or a derivative thereof in which H on the hydroxyl groups is partially or wholly, preferably in an amount of 385%, substituted with another atomic group as the active component, an enantiomer of a compound of the formula ( $R^1$  is alkyl or nonsubstituted or substituted aromatic group; X is acyloxy, aryloxy, alkylthio, arylthio or non-substituted, mono- or disubstituted amino) is directly optically separated by the liquid chromatography, etc.

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